JPEO-CBD

FIRRE
Family of Integrated Rapid Response Equipment

Organization

The US Army Product Manager, Force Protection Systems (PM-FPS) is the Army Materiel Developer for Force Protection Systems. PM-FPS is a product management organization under the Joint Program Executive Office, Chemical and Biological Defense (JPEO-CBD).

Mission

Provide affordable, modular, scaleable, and supportable tactical force protection capabilities to forward deployed forces while simultaneously providing state-of-the-art physical security equipment to Army installations worldwide.

Program Management

Product Manager – LTC Brian P. Shoop, PM-FPS
Deputy Product Manager – Mr. Jerry Edwards, PM-FPS
FIRRE Sensor Systems – LTC Reed Young, PM-RUS
FIRRE Technical Director – Robin Laird, SPAWAR
Project Leader – Jon Moneyhun, Titan Corporation

Additional Information

For additional FIRRE program, technical, and cost information, write to:

Product Manager, Force Protection Systems
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Fort Belvoir, Virginia 22060-5420
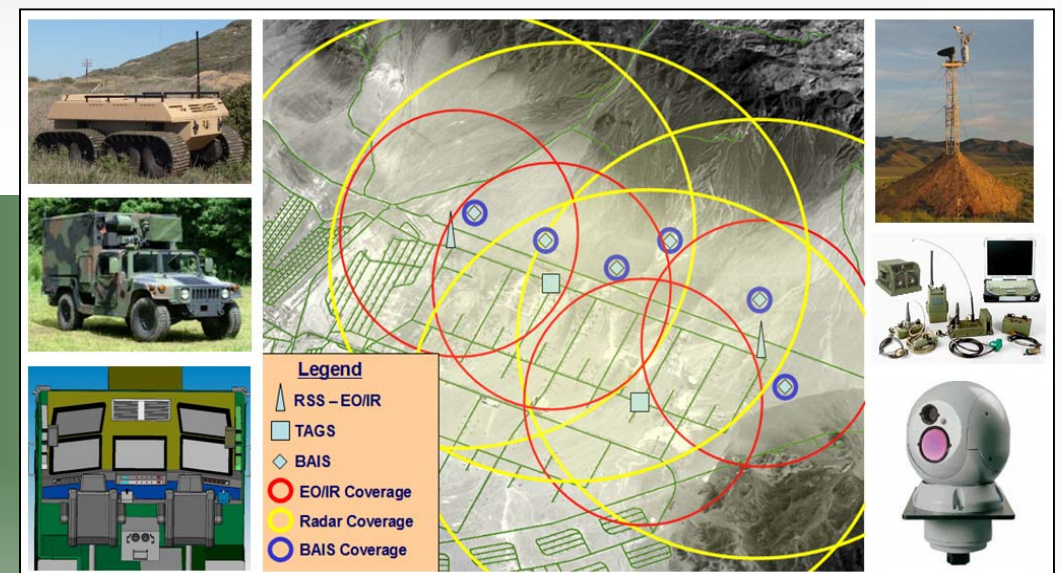Commercial: (703) 704-2416 DSN: 654-2416

Web site

www.pm-fps.army.mil

FIRRE is an OSD directed Force Protection Initiative to satisfy an urgent need to pursue tactical robotics requirements. FIRRE received an FY05 Congressional plus-up to fund FY05-06 demonstrations. The FIRRE program consists of a 2 phase demonstration that synchronizes the best available technology with unit deployment dates and a formal acquisition program.

Legend
RSS – EO/IR
TAGS
BAIS
EO/IR Coverage
Radar Coverage
BAIS Coverage

The FIRRE purpose is to develop a layered system of systems force protection capability that provides the warfighter the means to detect, assess and respond to enemy intrusion activities at forward deployed sites beyond the range of enemy small arms and RPGs. FIRRE consists of Unmanned Ground Vehicles (UGV), Battlefield Anti-Intrusion System (BAIS) Sensors, Ground Surveillance Radars (GSR) and the Multiple Resource Host Architecture (MRHA) fully integrated into a system of systems.
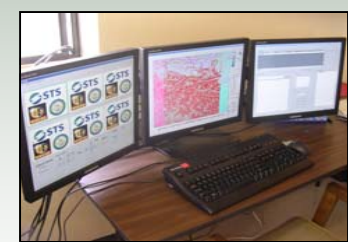
Phase I

Phase I is the Camera Assisted Monitoring System (CAMS) integrated with the AN/PPS-5D (GSR). It provides a mobile and static intruder detection capability to detect and assess intrusion activity. The concept calls for the GSR to cue the mast-mounted surveillance cameras to provide soliders inside the Mobile Operations Center with real time video surveillance in order to make an assessment for deploying the QRF. This results in reduced manpower requirements for perimeter security.
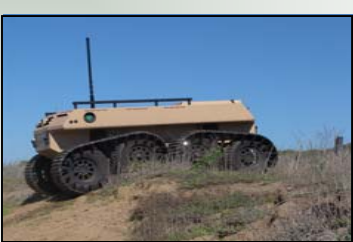

Phase II

Phase II integrates CAMS, GSR, and BAIS to cue UGVs at forward deployed sites. The UGV also has an on-board intrusion detection capability that provides real time surveillance back to the MRHA C2 console. The MRHA serves as the FIRRE C2 console. Phase II includes the following systems: (MRHA, BAIS, Tactical Amphibious Ground System (TAGS) 3x (PPS-5E Radar, Camera, FLIR) CAMS).
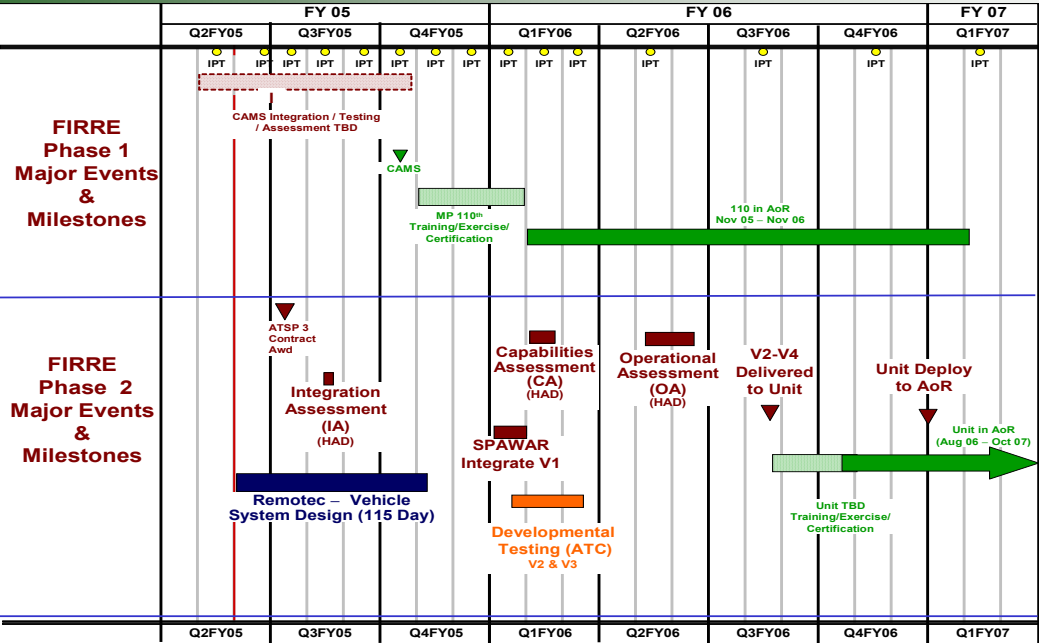

Multiple Resource Host Architecture (MRHA)

Battlefield Anti-Intrusion System (BAIS)

TAGS, PPS-5E Radar, Camera, and FLIR

Schedule

FIRRE Phase 1 Major Events & Milestones

CAMS Integration / Testing / Assessment TBD
CAMS
MP 110th Training/Exercise/Certification
110 in AoR Nov 05 – Nov 06

FIRRE Phase 2 Major Events & Milestones

ATSP 3 Contract Awd
Integration Assessment (IA) (HAD)
Capabilities Assessment (CA) (HAD)
Operational Assessment (OA) (HAD)
V2-V4 Delivered to Unit
Unit Deploy to AoR
Unit in AoR (Aug 06 – Oct 07)
SPAWAR Integrate V1
Remotec – Vehicle System Design (115 Day)
Developmental Testing (ATC) V2 & V3
Unit TBD Training/Exercise/Certification

	FY 05			FY 06				FY 07
	Q2FY05	Q3FY05	Q4FY05	Q1FY06	Q2FY06	Q3FY06	Q4FY06	Q1FY07

FIRRE Future

The future plan is to enter the Acquisition Cycle at System Development and Demonstration to develop a scalable, modular, affordable, and logistically, supportable force protection system of systems for the entire force.

Layered Force Protection System of Systems:

- CAMS
- UGS (BAIS)
- MRHA
- UGV (Autonomous Navigation System, Surveillance Mission Payload)
- GSR
- UAV
- Other emerging technologies/Payloads
- Customer Base (Military Police School, Air Defense Artillery School, Engineer School, and Field Artillery School)

End State: Layered Integrated 3-D Protection

PROTECT

JTF-HD